

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strike through~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1, 3, 1, 1, 19, 20, 30 and 31 in accordance with the following:

Claim 1 (Currently Amended): An information storage medium comprising:
a user data area to record user data,

wherein information about the user data area, where user data is recorded, is recorded in at least one of an area right before and an area right after a basic recording unit of the user data area.

Claim 2 (Original): The information storage medium of claim 1, wherein the basic recording unit of the user data area is one of a physical cluster, an error correction code (ECC) block, a sector, and a frame.

Claim 3 (Currently Amended): The information storage medium of claim ~~2~~1, wherein the basic recording unit of the user data area is a physical cluster, and the information about the user data area is recorded in at least one of a run-in area and a run-out area that are right before and after the physical cluster, respectively.

Claim 4 (Original): The information storage medium of claim 3, wherein:
the information storage medium has at least two information storage layers, and
the information about the user data area is recorded in at least one of the area right before and the area right after the basic recording unit of the user data area in different patterns for the different information storage layers.

Claim 5 (Original): The information storage medium of claim 3, wherein the

information about the user data area is recorded using addresses.

Claim 6 (Original): The information storage medium of claim 3, wherein the information about the user data area is storage layer information.

Claim 7 (Original): The information storage medium of claim 6, wherein the storage layer information is recorded using addresses.

Claim 8 (Original): The information storage medium of claim 1, wherein:
the information storage medium has at least two information storage layers, and
the information about the user data area is recorded in at least one of the area right before and the area right after the basic recording unit of the user data area in different patterns for the different information storage layers.

Claim 9 (Original): The information storage medium of claim 1, wherein the information about the user data area is recorded using addresses.

Claim 10 (Original): The information storage medium of claim 1, wherein the information about the user data area is storage layer information.

Claim 11 (Original): The information storage medium of claim 10, wherein the storage layer information is recorded using addresses.

Claim 12 (Currently Amended): A method of recording and/or reproducing data on an information storage medium having a user data area to record user data, the method comprising:

reading information about the user data area, where user data is recorded, from at least one of an area right before and an area right after a basic recording unit of the user data area;
and

recording and/or reproducing ~~the~~ data based on the information about the user data area.

Claim 13 (Original): The method of claim 12, wherein the basic recording unit of the user data area is one of a physical cluster, an error correction code (ECC) block, a sector, and a frame.

Claim 14 (Currently Amended): The method of claim 13, wherein the basic recording unit of the user data area is a physical cluster, and the information about the user data area is recorded in at least one of a run-in area and a run-out area that are right before and after the physical cluster, respectively.

Claim 15 (Currently Amended): The method of claim 13, wherein:
the information storage medium has at least two information storage layers, and
the information about the user data area is recorded in at least one of the area ~~right~~immediately before and the area ~~right~~immediately after the basic recording unit of the user data area in different patterns for the different information storage layers.

Claim 16 (Original): The method of claim 13, wherein the information about the user data area is recorded using addresses.

Claim 17 (Original): The method of claim 13, wherein the information about the user data area is storage layer information.

Claim 18 (Original): The method of claim 17, wherein the storage layer information is recorded using addresses.

Claim 19 (Currently Amended): The method of claim 12, wherein:
the basic recording unit of the user data area is a physical cluster, and
the information about the user data area is recorded in at least one of a run-in area and a run-out area that ~~are right~~is immediately before and after the physical cluster, respectively.

Claim 20 (Currently Amended): The method of claim 12, wherein:
the information storage medium has at least two information storage layers, and
the information about the user data area is recorded in at least one of the area

~~right~~immediately before and the area ~~right~~immediately after the basic recording unit of the user data area in different patterns for the different information storage layers.

Claim 21 (Original): The method of claim 12, wherein the information about the user data area is recorded using addresses.

Claim 22 (Original): The method of claim 12, wherein the information about the user data area is storage layer information.

Claim 23 (Original): The method of claim 22, wherein the storage layer information is recorded using addresses.

Claim 24 (Original): The information storage medium of claim 1, wherein the information storage medium is a recordable information storage medium.

Claim 25 (Original): The information storage medium of claim 1, wherein the information storage medium is a reproduction-only storage medium.

Claim 26 (Original): The information storage medium of claim 1, wherein the information storage medium is one of recordable and reproduction-only optical discs.

Claim 27 (Original): The information storage medium of claim 2, wherein the information about the user data area is recorded using one or more addresses of the ECC block.

Claim 28 (Original): The information storage medium of claim 3, wherein the information storage medium is a reproduction-only storage medium.

Claim 29 (Original): The information storage medium of claim 3, wherein each of the information storage layers includes a lead-in area, a lead-out area and the user data area.

Claim 30 (Currently Amended): The information storage medium of claim 4, wherein the different ~~patterns~~patterns are one of different consecutive patterns of identical

intervals and different patterns of different sized intervals.

Claim 31 (Currently Amended): The information storage medium of claim 8, wherein the different ~~patterns~~patterns are one of different consecutive patterns of identical intervals and different patterns of different sized intervals.

Claim 32 (Original): A method of operating a storage medium having a user data area, the method comprising:

accessing information about the user data area, where user data is recorded, from at least one of an area right before and an area right after a basic recording unit of the user data area; and

operating the storage medium based on the accessed information.

Claim 33 (Original): The method of claim 32, further comprising recognizing a layer of the storage medium based on the accessed information, wherein the operating of the storage medium includes recording and/or reproducing data with respect to the layer.

Claim 34 (Original): The method of claim 33, wherein the recognizing of the layer comprises recognizing the layer in response to the accessed information belonging to a predetermined group of addresses.

Claim 35 (Original): The method of claim 32, further comprising identifying a desired layer of the storage medium based on ranges to which the accessed information belongs.

Claim 36 (Original): The method of claim 35, wherein the identifying of the desired layer comprises:

recognizing a storage layer of the storage medium as the desired layer in response to the accessed information belonging to a predetermined range; and

in response to the accessed information not belonging to the predetermined range, accessing another storage layer of the storage medium so as to determine whether accessed information thereof belongs to the predetermined range.

Claim 37 (Original): The method of claim 36, wherein the operating of the storage medium includes recording and/or reproducing data with respect to the desired layer.

Claim 38 (Original): The method of claim 32, further comprising identifying storage layers of the storage medium, wherein the identifying of the storage layers comprises:

- recognizing a first layer of the storage layers in response to the accessed information belonging to a first predetermined range;
- in response to the accessed information not belonging to the first predetermined range, accessing a second layer of the storage layers so as to determine whether accessed information thereof belongs to a second predetermined range;
- recognizing the second layer of the storage layers in response to accessed information thereof belonging to the second predetermined range; and
- in response to the accessed information of the second layer not belonging to the second predetermined range, accessing another layer of the storage layers so as to determine whether accessed information thereof belongs to the second predetermined range.